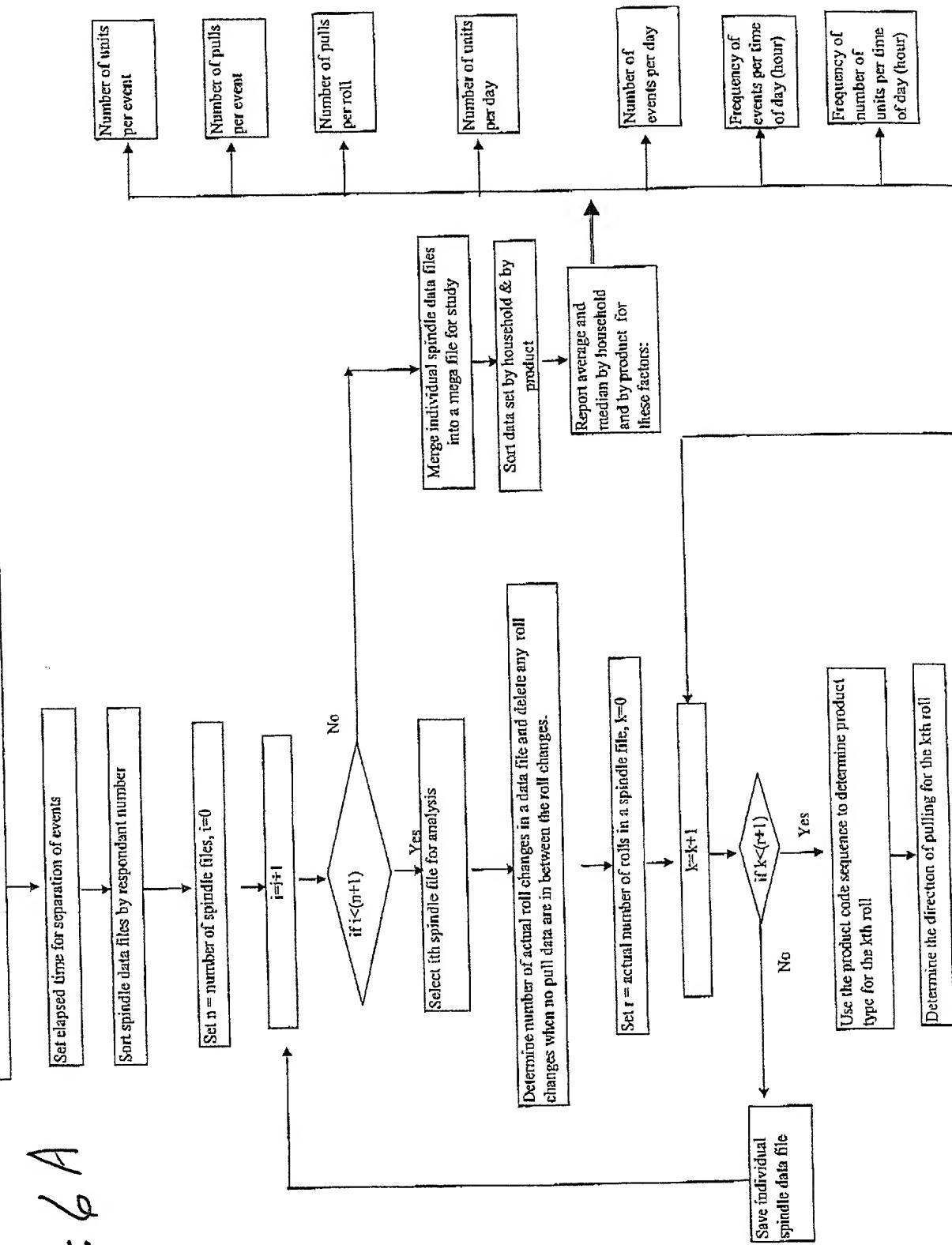


Create a data sheet which contains all the data related to the variables. The information is the product code sequence and physical dimensions of the test product ie initial outer diameter of roll, outer diameter of core, unit of length, number of units per roll

Fig. 6 A



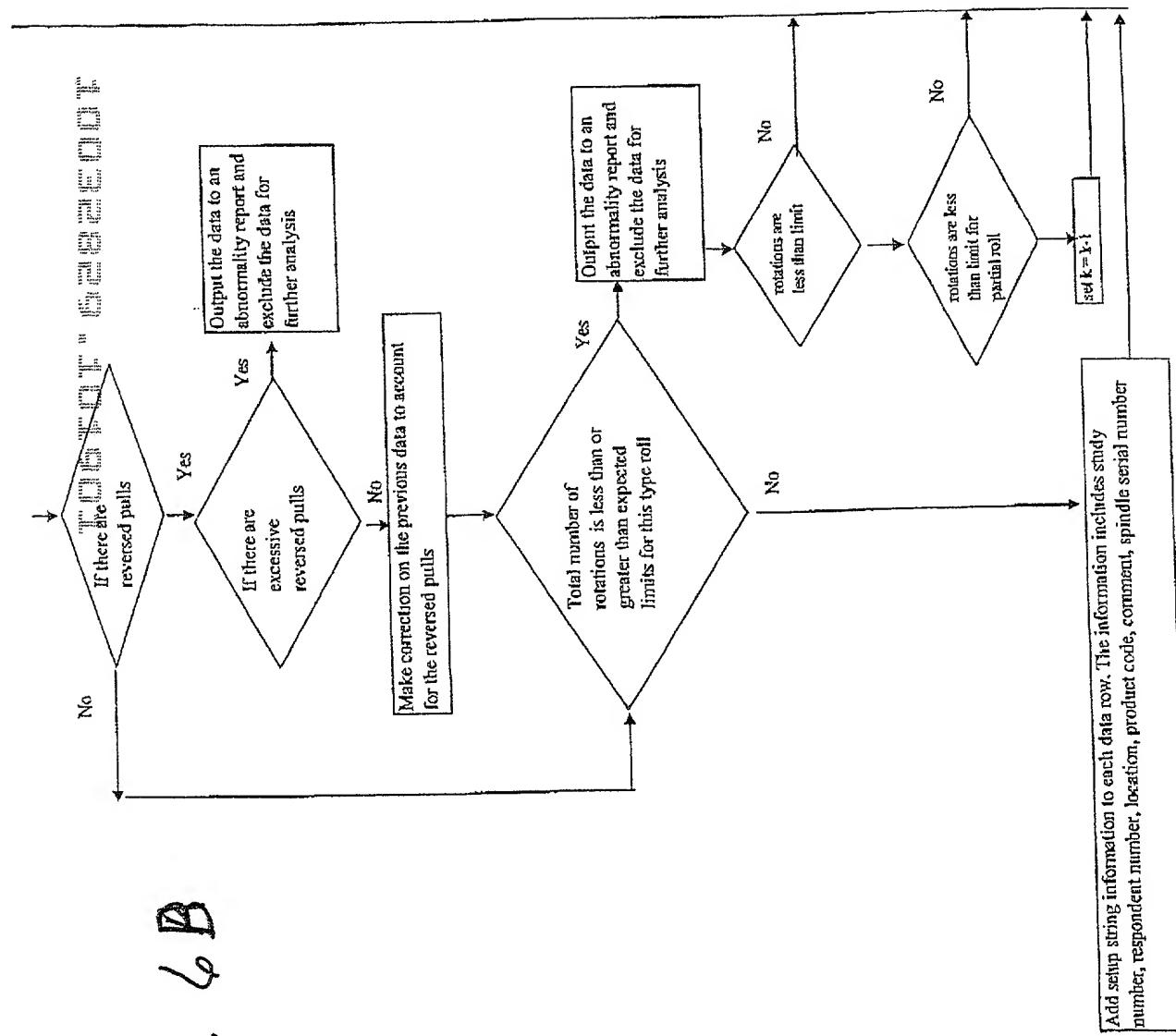
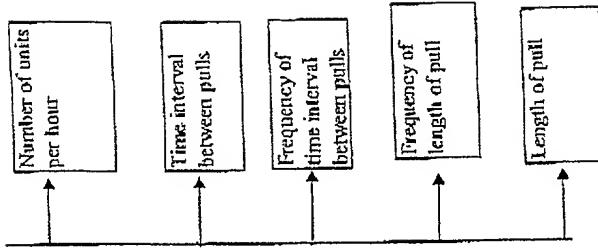


FIG. 6 B

Use of Smart Spindle for toilet paper utility in Consumer Home

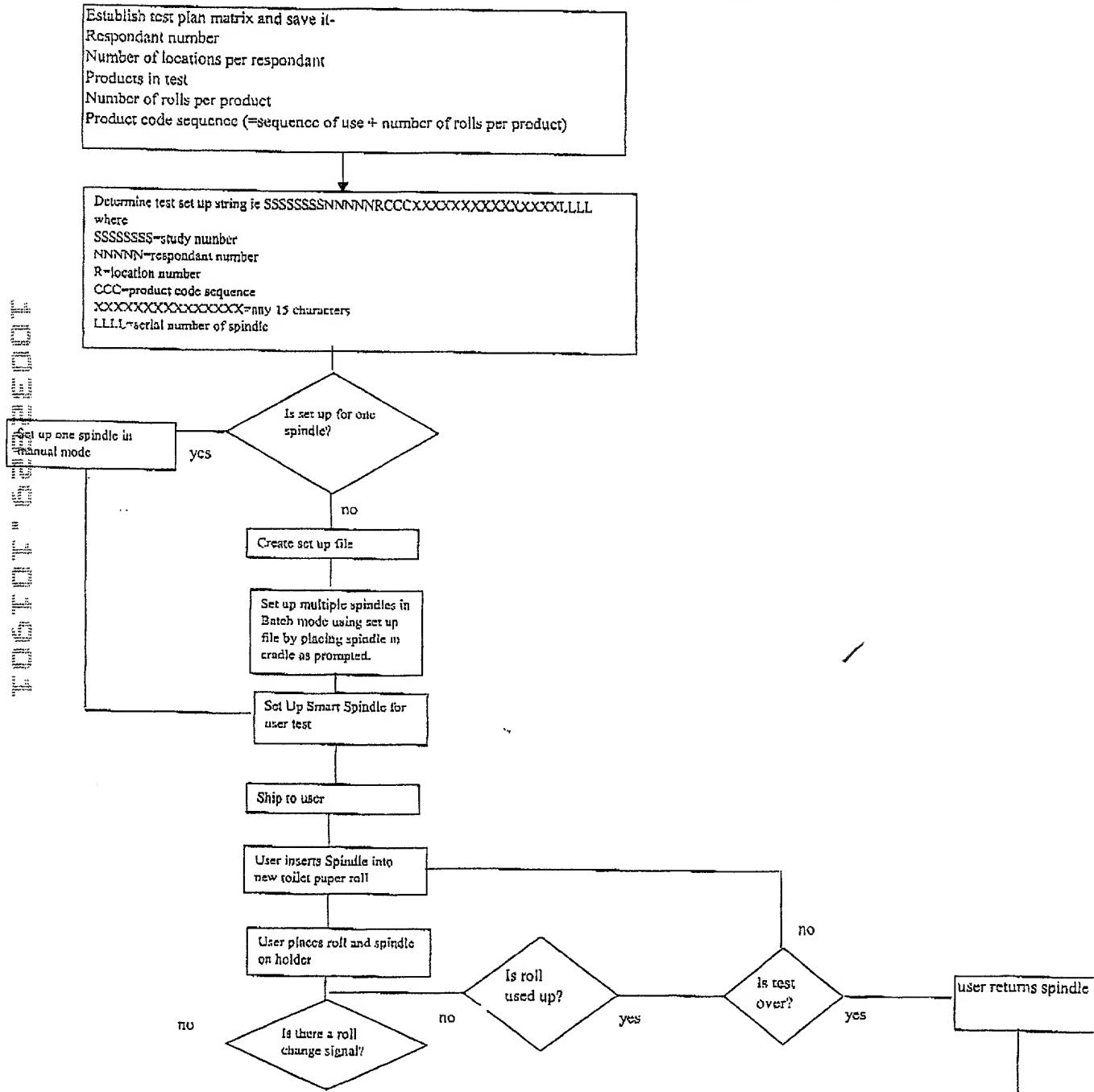


FIG 7A

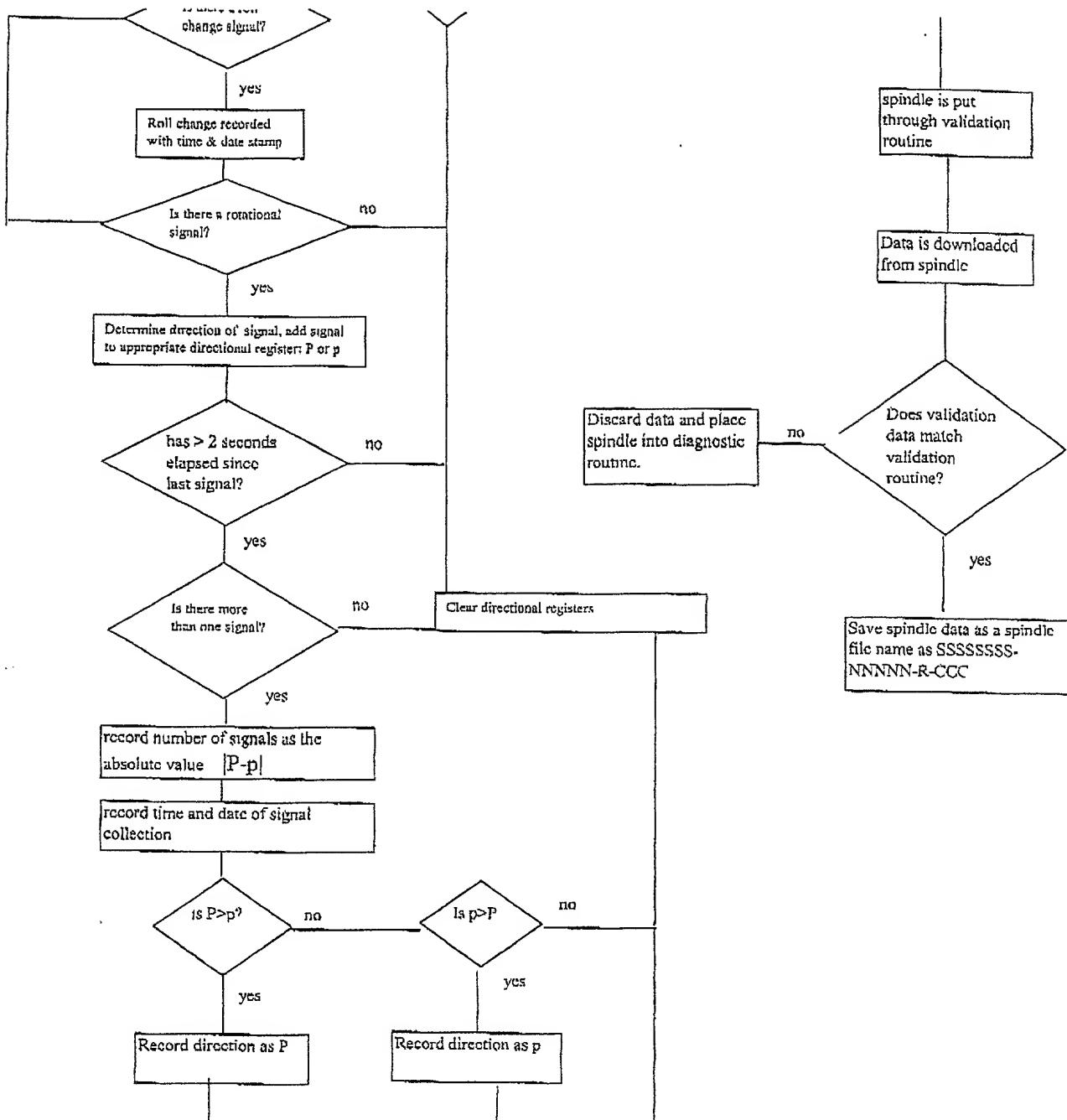
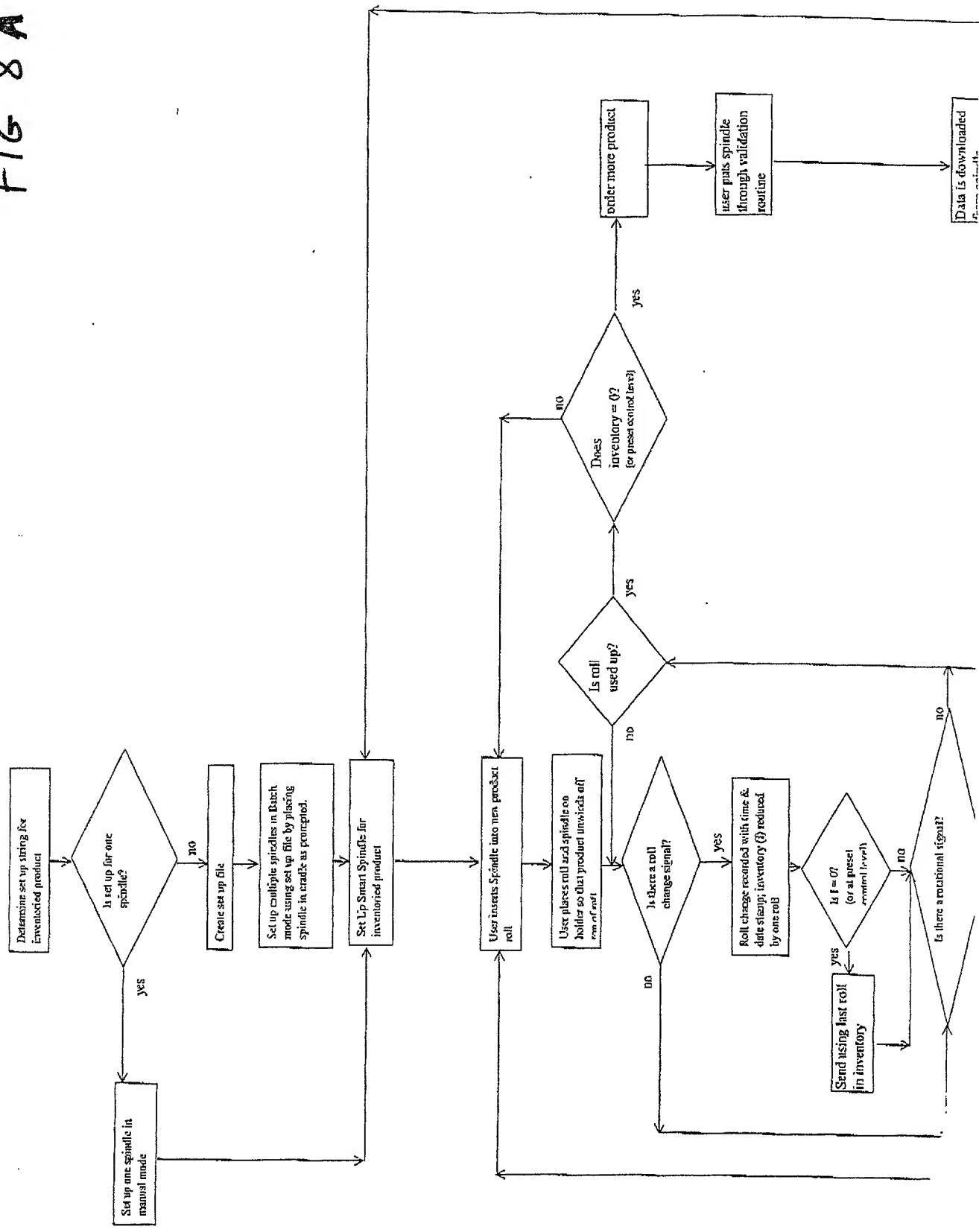


FIG 7B

Use of Smart Spindle to control an inventory in Colshener Home factory, retail store

FIG 8A



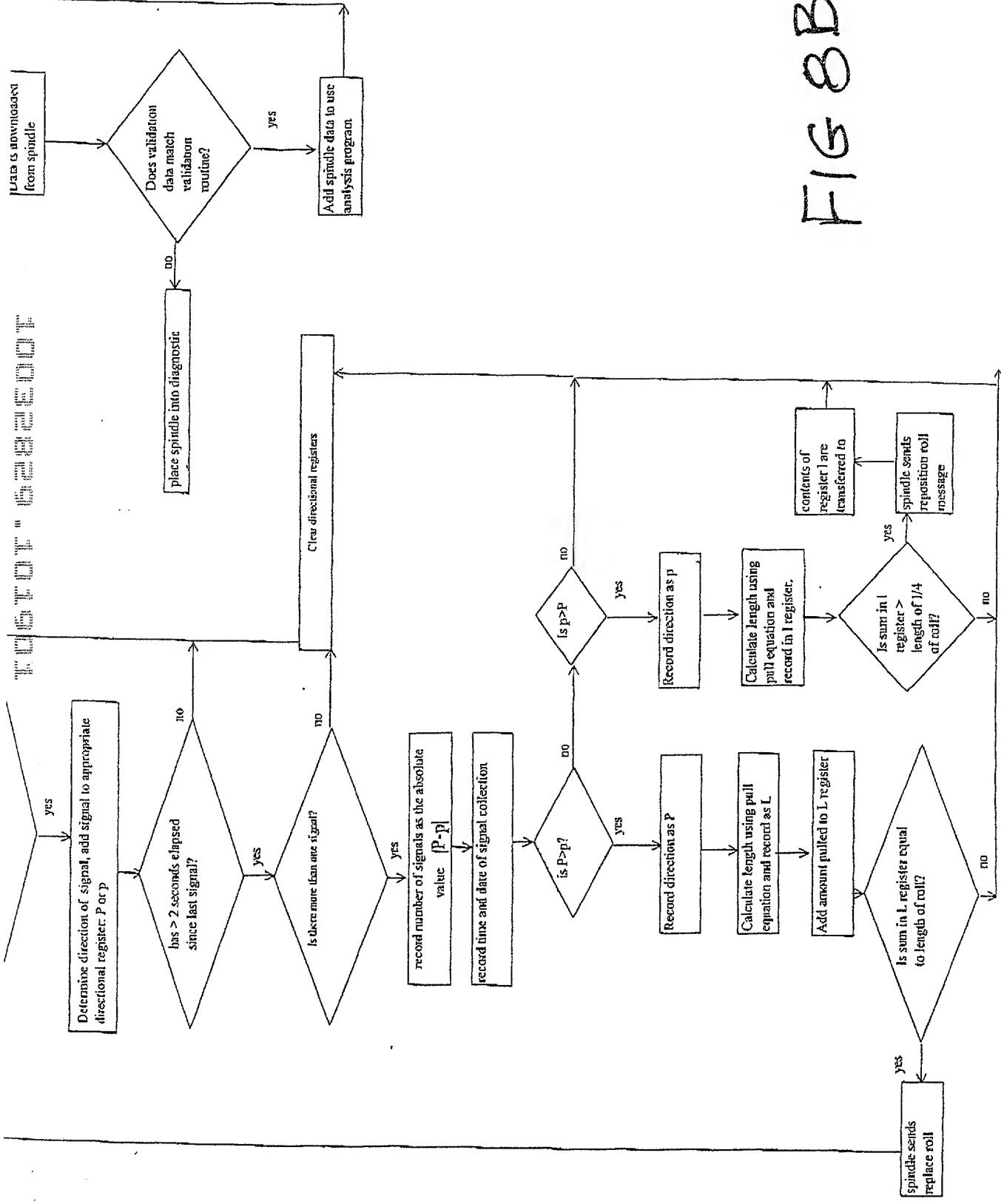


FIG 8B

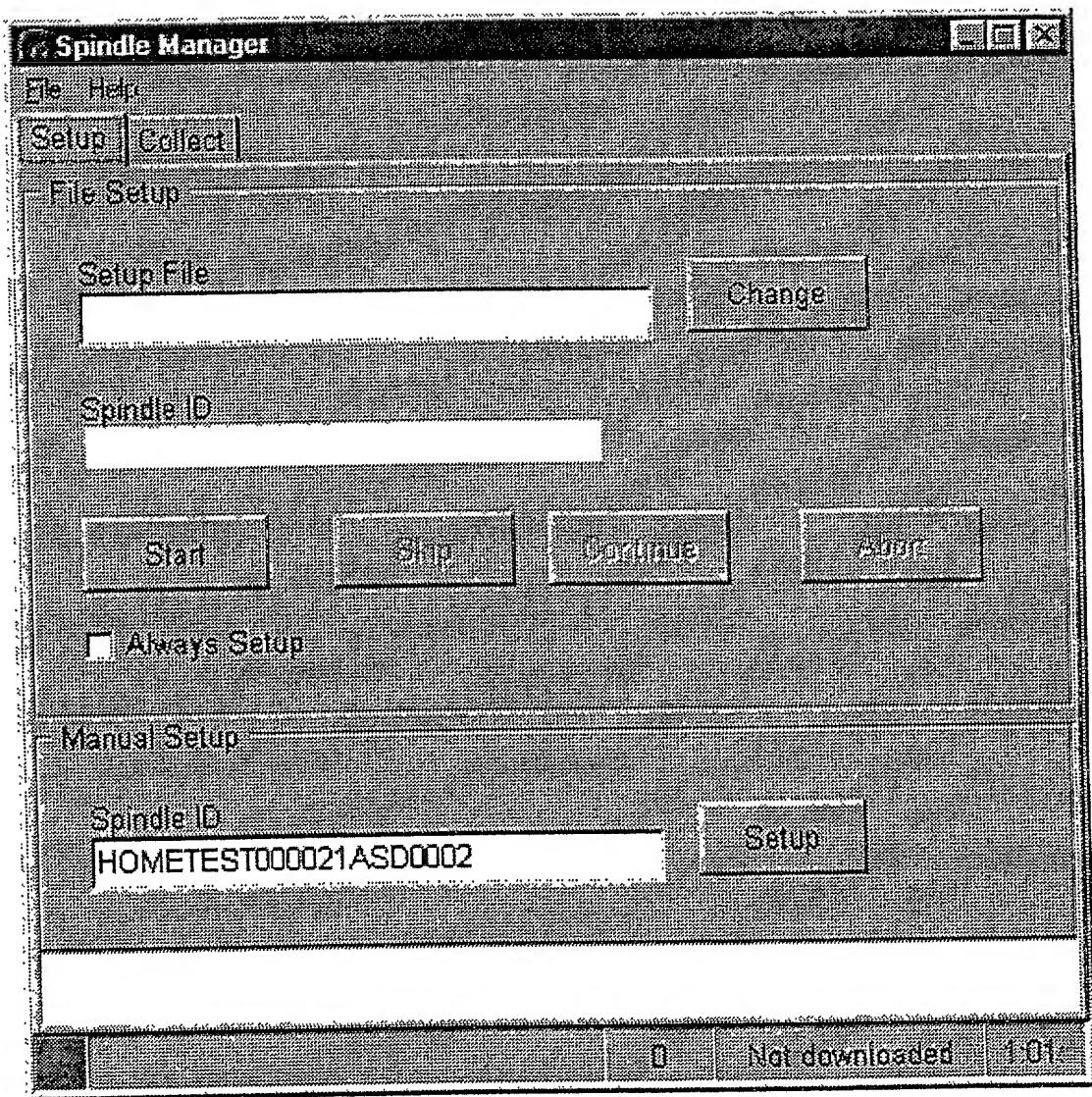


Fig. 9

Fig. 10. *Diagram of the*

Area	11	10	9	8	7	6	5	4	3	2	1
North	100%	88%	82%	78%	72%	68%	62%	58%	52%	48%	42%
South	100%	88%	82%	78%	72%	68%	62%	58%	52%	48%	42%
East	100%	88%	82%	78%	72%	68%	62%	58%	52%	48%	42%
West	100%	88%	82%	78%	72%	68%	62%	58%	52%	48%	42%

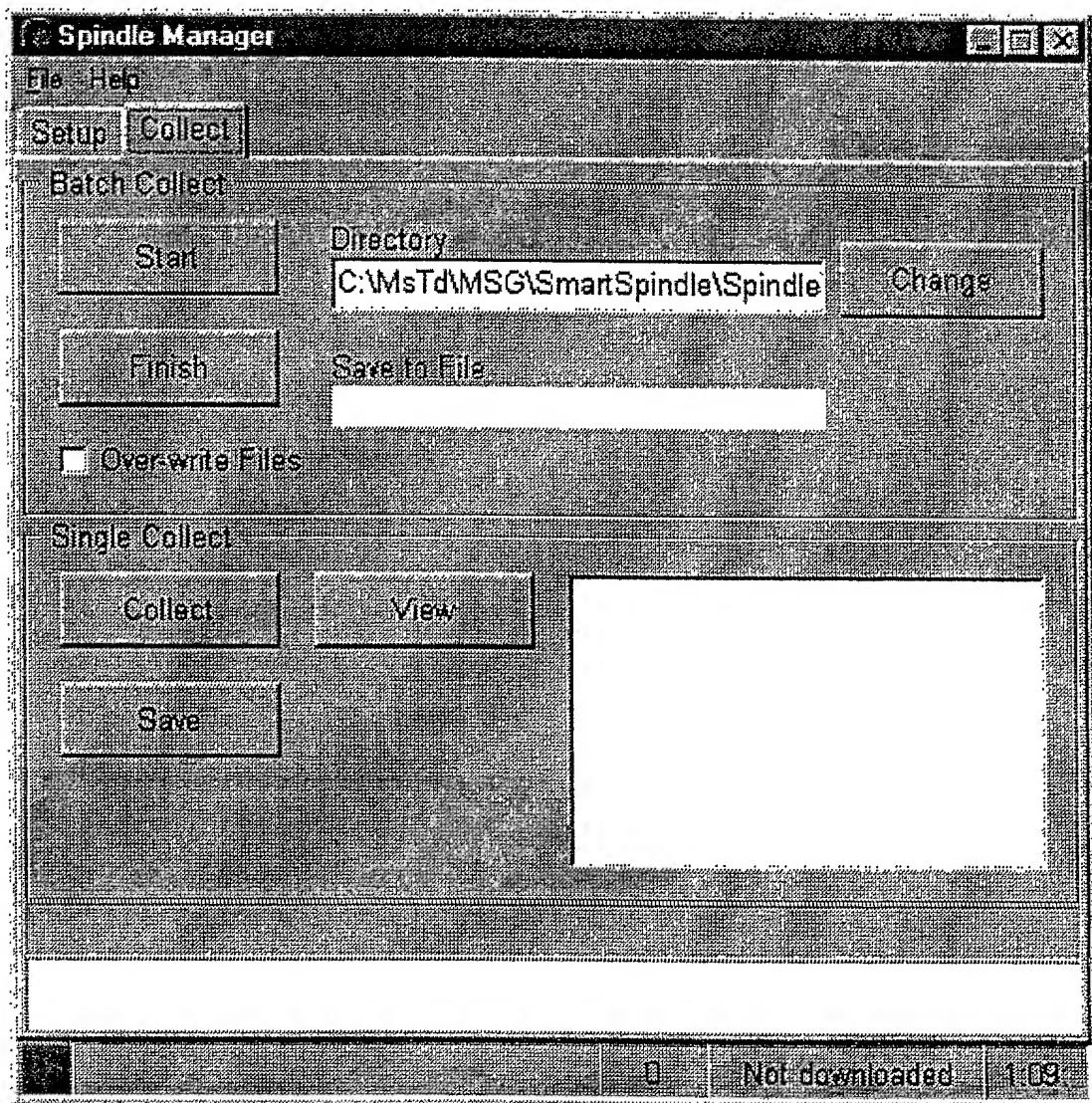


Fig.11



Fig. 12

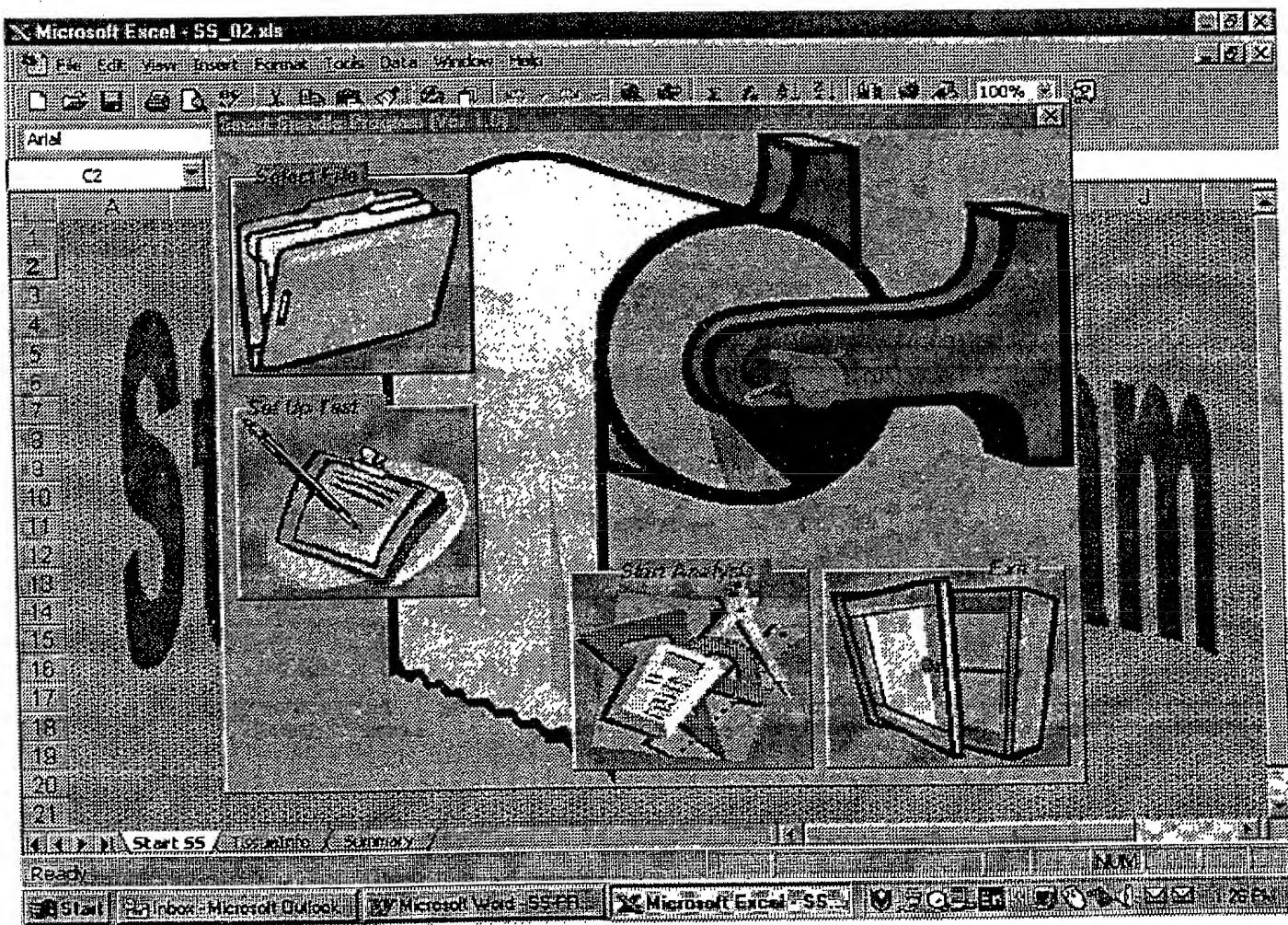


Fig. 13